



Model FD Fluidizer Disk

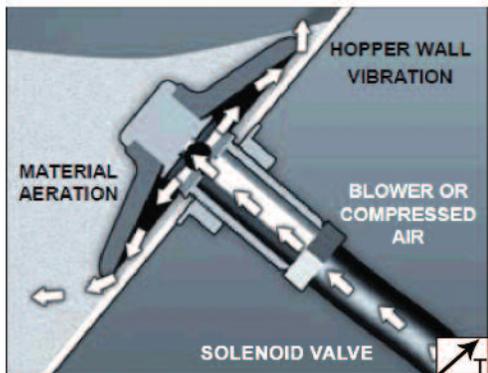
Specifications – Installation and Operating Instructions



The Model FD Fluidizer Disk combines aeration and vibration to solve the most difficult bulk solid flow applications. The special design creates a vibration as the air flows between the pads boot and bin wall. This provides a very effective flow aid for all types of dry products. Plus the FD does not require a specific air pressure for operation. Your pneumatic system pressure can range from 29 to 87 psi.

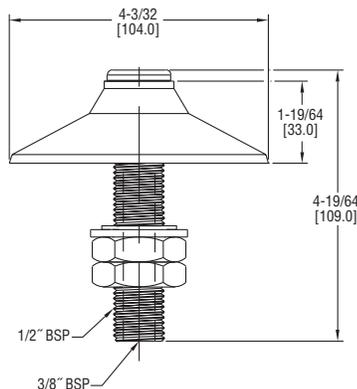
HOW IT WORKS

Air is introduced in the silo or bin through the fluidizer disk. As the air discharges in the material it provides aeration effect to fluidize the material. The positive air pressure keeps the material from getting under the boot. The air flowing under the boot causes it to vibrate. The vibration of the boot helps move material that has a tendency to hang up or bridge. When the air is removed from the boot, the pressure of the material and the design of the boot forces the boot against the side of the bin. This prevents material from getting under the boot and into the air supply line.



Silo cutaway showing FD in use.

Model	Air Consumption					
	29 psi (2 bar)		58 psi (4 bar)		87 psi (6 bar)	
	LPM	CFM	LPM	CFM	LPM	CFM
FD-1	100	3.53	150	5.29	250	8.82



SPECIFICATIONS

- Temperature Limits:** -40 to 340°F (-40 to 170°C).
- Air Supply:** 29 to 87 psi (2 to 6 bar).
- Air Consumption:** See model chart.
- Air Connection:** 3/8" male BSP and 1/2" female BSP.
- Material:**

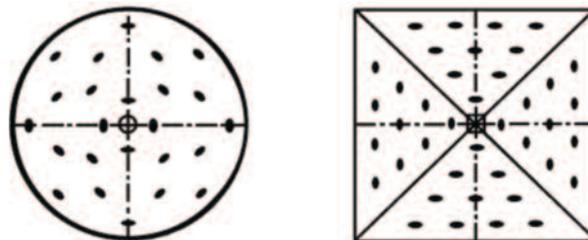
- Disk: Silicon 50 SH (A) Elastosil (FDA approved);
- Center Shaft: 304 SS;
- Sealing Washer: EPDM;
- Flat Washer: Galvanized steel;
- Hexagonal Nuts: Nickel plated brass.

Weight: 7.9 oz.

INSTALLATION

To install the Fluidizer Disk, drill a 7/8" hole in the hopper, bin, silo, etc., wall where material flow is a problem. From the inside, place the stainless steel shaft and silicon disk assembly through the walls, from the outside, slip on the sealing washer, flat washer and hexagonal nuts. Tighten down until snug. The unique design of the Fluidizer Disk allows the pad to be mounted on virtually any kind of surface, but for best results, try mounting on a clean and smooth surface.

TYPICAL MOUNTING CONFIGURATION



MAINTENANCE

Upon final installation of the Model FD Fluidizer Disk, no routine maintenance is required. A periodic check of the system is recommended. The Model FD is not field serviceable and should be returned if repair is needed (field repair should not be attempted and may void warranty). Be sure to include a brief description of the problem plus any relevant application notes. Contact customer service to receive a return good authorization number before shipping.